No.	Section or WBS No.	Name of Reviewer	Comment	Response	Type*
1	General	Judy Fulner, DOE-FETC	Suggest that the structure include some designation for RCRA, CERCLA, D&D, WM, ETC. This can be accomplished by adding a digit in front of the Phases.	ICEG recommended no action. Other project description information will provide this data.	С
2	Introduction pg. 8&9	Judy Fulner, DOE-FETC,	The terminology "Non-treatment" should be changed to reflect post treatment or some other descriptor since significant activity takes place to decommission buildings, etc.	The introduction is being revised to adopt this change.	С
3	Introduction pg.12 Second Level Dictionary	Judy Fulner, DOE-FETC,	The Second Level Dictionary, definition of .01 Program Management, Support & Infrastructure (Optional) states that the use of this WBS element on a project would signify that the other elements in a project are not burdened. The Department of Energy management and operating contractors or management and integration contractors make use of this element to collect overall program management cost related to a project and still include some burdened costs in the individual elements.	The text was revised to incorporate the comment.	С
4	Introduction pg. 12 Second Level Dictionary	Judy Fulner, DOE-FETC, (304)285-4520	The Second Level Dictionary Phase 4 definition of EX SITU PHYSICAL TREATMENT includes the chemicals for the treatment. Should the chemicals be included under Phase 5 - Operations and Maintenance?	The dictionary was corrected to include chemicals under Phase 5.	Q
5	Second Level Dictionary, WBS .06	Judy Fulner, DOE-FETC, (304)285-4520	Ron Clendenon has proposed a substitute definition for .06. I agree with the proposed definition.	The updated definition and title for Second Level .06 was adopted.	С
6	Introduction pg. 20, Second Level Dictionary	Judy Fulner, DOE-FETC, (304)285-4520	The Second Level Dictionary includes In Situ Vitrification in both .27 In Situ Thermal Treatment and .29 In Situ Stabilization/Fixation/Encapsulation. I suggest including it in only one of the definitions for clarity's sake.	No action. The items were cross-referenced to make a user aware that In Situ Vitrification is in two places.	С

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7	Third Level Dictionary	Judy Fulner, DOE-FETC, (304)285-4520	Suggest the layout of the third level dictionary be changed to make it easier to use. Add a column to the far right of the table and move the primary unit of measure to that column. Between the WBS and the WBS description add a column for the applicable phases. See attached example.	The layout of the dictionary will be address as a part of the technical edit of the dictionary.	Е
8	Third Level Dictionary	Judy Fulner, DOE-FETC, (304)285-4520	Throughout the Level 3 Dictionary the checks under the phases are inconsistent with the text.	A quality assurance review was performed to make sure the structure and dictionary are consistent.	D
9	Third Level Dictionary WBS 01.03	Judy Fulner, DOE-FETC, (304)285-4520	The definition for WBS 01.03 includes material handling, project utilities, and equipment maintenance. A distinction needs to be made between project specific items and program infrastructure.	Phase 8 accomplishes the intent of this comment.	С
10	Third Level Dictionary WBS 01.04 /WBS 02.08	Judy Fulner, DOE-FETC, (304)285-4520	The dictionary should provide for some distinction between WBS 01.04 and WBS 02.08, both titled Construction Management.	WBS .01.04 was eliminated.	D
11	Third Level Dictionary WBS 02.04	Judy Fulner, DOE-FETC, (304)285-4520	The dictionary states that institutional controls are measures as an interim action. Institutional controls are associated with final actions as well. For instance, fences and warning signs can be posted after restoration is complete at burial grounds, etc.	The dictionary was revised.	С
12	Third Level Dictionary WBS 02.06	Judy Fulner, DOE-FETC, (304)285-452	The dictionary should note that the charges for procurement could be included in the costs of the equipment and materials under the remedial action, etc.	The dictionary was revised.	С
13	Third Level Dictionary WBS 03.03	Judy Fulner, DOE-FETC, (304)285-452	Should phase 6 be included? Post-closure sampling plans are prepared.	A definition for Phase 6 was added.	D
14	Third Level Dictionary WBS 03.02 /WBS 03.06	Judy Fulner, DOE-FETC, (304)285-452	The data dictionary should explain the difference between WBS 03.02 Chemical Acquisition Plan, and WBS 03.06 Data Management Plan.	The dictionary was revised.	D

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15	Third Level Dictionary WBS 03.13	Judy Fulner, DOE-FETC, (304)285-452	Add radiological incident to the definition.	The dictionary was revised.	С
16	Third Level Dictionary WBS 07.08	Judy Fulner, DOE-FETC, (304)285-452	Check the reference on "Asbestos Abatement" 33.15.01. Should this be X.15.04?	The reference was corrected.	С
17	Third Level Dictionary WBS 07.11	Judy Fulner, DOE-FETC, (304)285-452	Check the reference for Geophysical/geotechnical investigation 33.xx.xx. Should it be x.07.06?	The reference was corrected.	С
18	Third Level Dictionary	Judy Fulner, DOE-FETC, (304)285-452	Check the dictionary for all references to 33.xx.xxx and replace with the phased structure references.	A quality assurance review was performed to ensure that the references were correct.	D
19	Third Level Dictionary WBS 11.06	Judy Fulner, DOE-FETC, (304)285-452	Strike the sentence on operations and maintenance. The operations and maintenance should br in Phase 5 under the treatment train being used, not under overhead.	The dictionary was revised.	D
20	Third Level Dictionary WBS 12.01 to WBS 12.07	Judy Fulner, DOE-FETC, (304)285-452	Some information needs to be included in the definition to describe differences in hazardous and radiological waste streams. E.g., WBS 12.07 Mixed Waste Storage Facility. Mixed waste is traditionally defined as waste with both hazardous and radiological constituents.	The definitions were expanded to reference a regulation which defines the types of waste.	D
21	Third Level Dictionary and structure	Judy Fulner, DOE-FETC, (304)285-452	Check for inconsistencies in the structure and the dictionary. First noted in WBS x.16.02. Soil Vapor Extraction is listed as 26.34. The Structure includes it as 26.34. The Dictionary describes it as Soil Washing (Surfactant/Solvent)	A quality assurance review was performed to ensure that the references were correct.	D
22	Third Level Dictionary WBS 18.01	Judy Fulner, DOE-FETC, (304)285-452	Phase 5 notes operation and maintenance during construction. Should this be extended to all operation and maintenance of extraction wells?	The definition was corrected to include operation and maintenance in only Phase 5.	D
23	Third Level Dictionary WBS 24.13	Judy Fulner, DOE-FETC, (304)285-452	Phase 4 Reference should be 24.08 instead of 24.09	The reference was corrected.	Е

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24	Third Level Dictionary WBS 31.01 and 31.02	Judy Fulner, DOE-FETC, (304)285-452	Suggest that WBS 31.01 and 31.02 be reversed.  Deactivation removal of fuel, etc., should be performed before shutdown of the facility.	The comment was not adopted.	С
25	Third Level Dictionary WBS 31.03	Judy Fulner, DOE-FETC, (304)285-452	Definition for the WBS is needed.	A definition was added.	M
26	Third Level Dictionary WBS 08.16	Judy Fulner, DOE-FETC, (304)285-452	Needs UOM, suggest EA.	A unit of measure was added.	D
27	Secondary Parameters	Judy Fulner, DOE-FETC, (304)285-452	I support the need for secondary parameters at Level 3 of the dictionary.	No action necessary.	Е
28	Third Level Dictionary WBS 10.09	Judy Fulner, DOE-FETC, (304)285-452	Needs a definition.	A definition was added.	D
29	General	T. Brennan, DOE-SRO and D. Hindle, BSRI	Suggest adding a Phase 7 for Interim Actions accomplished at field activities during RCRA/CERCLA closure activities.	The comment was not adopted. ICEG decided that interim actions could be addressed through the use of the subproject identifier.	D
30	General	T. Brennan, DOE-SRO and D. Hindle, BSRI	Suggest adding a Phase 8 for cross-cutting PROGRAM activities/organizations that span, or are not "phase-specific" (i.e., program administration, technology development activities, program QA/QC, etc.)	Phase 8 was adopted.	D
31	Chao/ Hombach WBS Level 4 vs. Level 5 Issue	T. Brennan, DOE-SRO and D. Hindle, BSRI	We prefer to follow Kin Chao's proposal for the Level 4 activities. As proposed this fits nicely with the manner in which our estimates are developed and will support the HTRW-COA's that we are currently implementing.	The ICEG decided to adopt the overall WBS structure through Level 3 and a standard for reporting technology costs for Cost Performance Reports.	С

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32	2.03.XX	T. Brennan,	Structure should have a RFI/RI/BRA Workplan. Note:	A new element was added X.03.17 titled "	
		DOE-SRO and	includes several of the level 3 plans (i.e., health and safety	Combined Work Plan". The comment was	D
		D. Hindle, BSRI	plan, sampling and analysis plan, etc.).	used to write the definition.	
			Description:		
			The purpose of the RFI/RI/BRA Workplan is to provide a		
			detailed description of the work to be performed in the		
			RFI/RI/BRA Characterization based on a technical analysis		
			of the situation at the unit. The RFI/RI/BRA Workplan		
			provides a history of the waste unit and previous		
			characterization activities, a review of the relevant		
			Pre-Workplan Characterization data, and technical		
			analysis of the characterization data performed by		
			screening against human health risk, and contaminant		
			migration criteria. The plan includes a discussion of the		
			technical approach to sampling at the unit - both for		
			sample media and biota such as plants and animals. This		
			step may require some or all of the following: the		
			development of a scoping meeting package, a revision 0		
			report, comment resolution, comment incorporation and		
			preparation of a revision 1 report.		
			UOM = EA		

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33	3.03.XX	T. Brennan,	Add Remedial Design Workplan.	The title of X.03.14 was changed and the	
		DOE-SRO and	Description:	comment was used to expand the definition.	D
		D. Hindle, BSRI	This document is prepared as an overview of the	Level 1 element would be 3 for this plan.	
			remediation process. The document provides a basic	-	
			summary-level list of the tasks that will be performed		
			during the remedial design (treatability studies, special		
			studies, well pump tests, field surveys, additional data		
			collection, design of drainage systems, design of		
			geosynthetic cover systems, etc.). It also provides a		
			description of any waste treatment schemes anticipated as		
			part of the remedial action which may include items such		
			as preliminary engineering flow diagrams and vendor data.		
			UOM = EA		
34	3.03.XX	T. Brennan,	Add Remedial Action Workplan.	The third level element X.03.14 title was	
		DOE-SRO and	Description:	changed and the comment was used to expand	D
		D. Hindle, BSRI	This work plan provides a general description of the	the definition. The Level 1 element would be 4	
			remedial action and the construction work to be performed	for this plan.	
			as well as a schedule for construction and implementation		
			of the remedial action. This report provides a description		
			of how changes to the remedial design will be managed		
			and how DHEC and EPA will be notified of any changes.		
			Also included with this report are any requirements and		
			plans for any waste disposal and transport activities that		
			will occur as a part of the remedial action. A discussion of		
			the actions required to close out the remedial action project		
			(e.g., equipment startup and testing, operations and		
			maintenance plan, as-built drawings, etc.) will also be		
			provided.		
			UOM = EA		

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35	2.04.XX	T. Brennan,	Add RFI/RI/BRA Report.	An element was added X.04.15 for Combined	
		DOE-SRO and	Description:	Reports and this comment was used to	D
		D. Hindle, BSRI	Includes all efforts related to the preparation of findings of	formulate a definition.	
			the remedial investigation and related technical analyses.		
			The RFI/RI/BRA report includes a unit characterization		
			summary, presentation of the unit data, analysis of		
			contaminant fate and transport, human health risk		
			assessment, ecological risk assessment, and the		
			determination of appropriate remedial goal options.		
			Includes all activities required to prepare, review, revise,		
			and approve the RFI/RI/BRA report. This step may		
			include the development of a scoping package, a revision 0		
			document, comment resolution, comment incorporation		
			and the preparation of a revision 1 document.		
			UOM = EA		
36	2.04.XX	T. Brennan,	Add Proposed Plan.	An element was added X.03.18.	
		DOE-SRO and	Description:		D
		D. Hindle, BSRI	The SB/PP document describes the preferred alternative for		
			remediation in layman's terms. Scope includes the		
			development of scoping packages, revision 0 document		
			preparation, comment resolution, comment incorporation		
			and the preparation of a revision 1 document. It may also		
			include attendance at public meetings.		
			UOM = EA		

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37	2.04.XX	T. Brennan,	Add Record of Decision.	An element was added X.04.15 for the Record	
		DOE-SRO and	Description:	of Decision. Another element was also added	D
		D. Hindle, BSRI	The Record of Decision (ROD) is the document that	when reviewing this comment X.04.16	
			describes the remediation option agreed upon by the DOE,	EE/CA-Engineering Evaluation/Cost Analysis.	
			EPA, and DHEC. Scope includes the development of		
			scoping packages, revision 0 document preparation,		
			comment resolution, comment incorporation and the		
			preparation of a revision 1 document. It may also include		
			attendance at public meetings.		
			UOM = EA		
38	X.09.XX	T. Brennan,	Add Sample Management (includes several of the third	An element was added X.09.11 for Combined	
		DOE-SRO and	level items).	Sample Management which includes	D
		D. Hindle, BSRI	Description:	performance of X.09.01, X.09.02 and X.09.04	
			Includes preparing and shipping of samples, preparing	in one process. The dictionary notes the cost	
			chain of custody, coordination with samplers,	should be reported in only one place to avoid	
			UOM = EA Sampling Event	duplication.	
39	X.09.XX	T. Brennan,	Add Data Management (includes several of the third level	An element was added X.09.12 for Combined	
		DOE-SRO and	items).	Data Management which includes performance	D
		D. Hindle, BSRI	Description:	of X.09.06, X.09.07, X.09.08 and X.09.11 in	
			Includes data validation, incorporation into site databases,	one process. The dictionary notes the cost	
			& evaluation report.	should be reported in only one place to avoid	
			UOM = EA Sampling Event	duplication.	
40	4.04.XX	T. Brennan,	Add Post Construction Report (PCR).	An element was added X.04.17 titled Post	
		DOE-SRO and	Descripton:	Construction Design Report and the comment	D
		D. Hindle, BSRI	This document provides a general narrative of the	was used to formulate a definition which notes	
			construction activities that have been performed for the	the element includes as built drawings.	
			remediation project. It includes a brief discussion of		
			unexpected conditions encountered in the field, particularly	Another element was added X.02.11 Project	
			those that affected the scope or schedule of the construction	Closeout to address an issue raised when	
			work. It also identifies design changes that were required	reviewing this element.	
			during construction and provides required certifications,		
			verifications and as-builts for the remediation project.		
			UOM = EA		

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41	2.04.06 thru 2.04.09	T. Brennan, DOE-SRO and	Move under 2.04.10 (we typically perform these activities under the Prepare & Document FS and then collect actual	An element was added X.04.18 to cover combined Feasibility Study. The individual	C
	2.0 1.0)	D. Hindle, BSRI	costs in the same category). In other words, is there value	elements are needed to address projects	
		,	gained in breaking these activities apart under different	performed under NEPA which have distinct	
			WBS Sub-elements?	activities.	
42	X.19.03, 04,	T. Brennan,	Need to clarify that if the cap is the final closure,	A Phase 6 definition was added.	
	05, 07,08	DOE-SRO and	inspections and maintenance should be included in Phase 6		C
		D. Hindle, BSRI	instead of Phase 5 since the cap is not in an "operating "		
			mode, but rather in post closure.		
43	Inconsistencies	Ron Clendenon	Since this structure is noted to be a "work breakdown	ICEG recommended formal adoption only to	
	in the	DOE-RL	structure (WBS)," that would imply a list of products or	Level 3. Level 4 will be left to each agency.	C
	Structure		deliverables - not necessarily a list of activitiesA		
			potential problem with the new HTRW WBS is that the		
			fourth level is <b>NOT</b> consistently an activity versus being a		
			product or deliverable. Most notably in Level 2, items		
			01-09, where the structure goes down to Level 5 quite		
			often. In other words, the new structure is a "mix" of		
			deliverables and activities at all levels below the first level,		
			which makes it very difficult to align this structure to a		
			standardized COA.		

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44	Inconsistencies	Ron Clendenon	On page 10 of the Introduction write up, it is noted that the	The introduction was expanded but the ICEG	
	in the	DOE-RL	different phases identified by the first level would have	decided that an additional number would not	D
	Structure		different definitions based upon the type of project (i.e.,	be included in the ICEG WBS. Users can add	
			CERCLA, RCRA, Waste Management, etc.). The draft	additional numbers internally if they desire.	
			WBS structure does not differentiate between the different	Additional project information including the	
			types of projects. In other words, the WBS number "	project description and other information is	
			2.04.10" indicates a Feasibility Study, but it does not	required in the data base used to collect	
			identify whether it is a Feasibility Study for a CERCLA,	historical information.	
			RCRA, Waste Management, or D&D project, which might		
			have significant scope and cost differences. If this		
			structure is to work, either another level must be inserted		
			ahead of the first level or the first level must be expanded,		
			to address the "type" of project through individual		
			elements with unique definitions.		

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45	Introduction	Ron Clendenon DOE-RL	Each element of the structure should represent a unique deliverable or activity with a unique definition. The draft structure, however, includes numerous elements with two or more completely different definitions for the same element identification number and title. The confusion is compounded by the fact that it occurs in elements of two different levels of the structure as illustrated in the following examples:  First Level Elements: The first level elements denote the different phases of a project and the definition for each phase is different depending on the type of project (e.g., CERCLA, RCRA, Waste Management, etc.)  Third Level Elements: The second level elements of "Treatment Plant/Facility," "Storage Facility," and "Disposal Facility" include many third level elements with definitions depending on the first level phase of the project. The same element has a unique definition for construction (Phase 4 of the first level), and for operations and maintenance (Phase 5 of the first level).  These inconsistencies will make it easy for errors and misinterpretations of information to occur in reporting, queries, and analysis of data. The rules for structuring the WBS should not allow individual WBS elements to have multiple definitions.	When addressing the team identified X.05 Site Work and Mobilization/Demobilization in the third level elements in the treatment facilities and technologies as an issue. All mobilization/demobilization has been moved to X.05 to be consistent.  Technology specific transportation and setup (sometimes describe as technology specific mobilization/demobilization) should be included under Level 4 of the specific technology.	C
46	First Level Elements	Ron Clendenon DOE-RL	The life cycle phases identified in the first level of the structure do not include the (D&D) phase. This should be added to the phases to cover the entire life cycle of an EM project.	No action necessary. D&D life cycle phases have been defined in the Level 1 dictionary and the introduction is being expanded to address this comment.	D

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47	First Level	Ron Clendenon	The first level of the structure appears to be included for	No action necessary.	
4/				No action necessary.	Б
	Elements	DOE-RL	the purpose of capturing total life cycle costs of a project.		D
			This is focussed on tracking progress instead of building a		
			structure to provide meaningful cost information to cost		
			estimators and cost reviewers. The project phases are not		
			necessary for this structure and should not be included as		
			part of the structure.		
48	Second Level	Ron Clendenon	Costs for the second level elements of "Program	This comment has been incorporated in	
	Elements	DOE-RL	Management" and "Project Management" are not normally	adoption of the Phase 8 crosscutting element.	D
			tracked by the project phases identified in the first level of		
			the WBS and quite often, the phases can overlap with		
			activities going on in more than one phase simultaneously.		
			The phased approach does not lend itself to tracking these		
			kinds of costs.		
49	Second Level	Ron Clendenon	As noted in past comments from RL, the 2nd Level, ".06	The revised definition and title were adopted.	
	Elements	DOE-RL	Pre-Remedial Surveillance and Maintenance" title should		C
			be "Surveillance & Maintenance." Whether it is pre- or		
			post-remediation would be noted by which "phase" is used		
			in the first level of the WBS number. The activities listed		
			under ".06" can apply to both "pre" and "post" remedial		
			action or D&D.		
50	Third Level	Ron Clendenon	Suggest deleting elements .01.04. The definitions are	Element X.01.04 was deleted.	
	Elements	DOE-RL	essentially the same and it is not appropriate to have	Dienient 71.01.01 was defeted.	C
	.01.04 and	DOL KE	construction management as an element under program		
	.02.08,		management. In addition, construction management is not		
	Construction		normally considered to be a sub element of project		
	Management		management (see DOE Cost Guide, Volume 6, Chapter 6)		
			and it is suggested that construction management be moved		
			to the second level.		

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51	Third Level	Ron Clendenon	Suggest moving this element from "Program Management"	The revised definitions and Phase 8 address	
	Elements	DOE-RL	to "Project Management and Support" since it is directly	this comment.	C
	.01.05,		related to a specific project. In addition, why has		
	Government		government activities related to construction management		
	Construction		been identified separately? Government personnel, in		
	Management		many of the agencies, can be involved in many of the		
			program and project planning, management and design		
			deliverables identified in the WBS. Making separate WBS		
			elements for government versus contractor work is not		
			practical and it is suggested that this element be deleted.		
52	Third Level	Ron Clendenon	Third level elements in Program Management and Project	The revised definitions and Phase 8 address	
	Elements in	DOE-RL	Management should be consistent. For example, .02.02, "	this comment. The elements can be performed	C
	Program		Community Relations" and .02.03, "Regulatory	for a specific project or as program	
	Management		Interaction" are at the third level in Project Management	management across many projects.	
	and Project		and Support, but are at the fourth level in Program		
	Management		Management. If these are considered to be important		
			enough to be at the third level in one area they should be		
			treated the same everywhere.		
53	Third Level	Ron Clendenon	This element singles out procurement activities related to	The definition was revised to reflect the proper	
	Element	DOE-RL	the procurement of project equipment and materials, but no	use of this element. The element is to be used	C
	.02.06,		other element identifies procurement activities related to	when procurement is not related to a specific	
	Procurement-E		other procurement actions such as for construction or A/E	project.	
	quipment and		services. Suggest this element include any procurement		
	Materials		activities.		

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54	Third Level	Ron Clendenon	This is another instance where the structure is	The definition was clarified.	
	Element	DOE-RL	organizationally instead of product oriented. The		С
	.02.07, A/E		definition for this element describes A/E services during		
	Support		remedial actions/construction which are typically		
	During		considered Title III services. Title III services are typically		
	Remedial		considered part of construction management and it is		
	Actions		suggested that this element be deleted and the definition of		
			elements .02.08, "Construction Management" be revised to		
			include Title III activities. If the development team		
			chooses to keep this element, suggest changing the title		
			and definition of the element to recognize that it also		
			includes support during construction.		
55	Third Level	Ron Clendenon	These activities are typically considered to be part of	No action taken. ICEG determined both	
	Element	DOE-RL	project design activities and this element should be moved	elements are needed.	C
	.02.05, Post		to .04, "Studies/Design Documentation."		
	Design				
	Support				
56	Elements not	Ron Clendenon	There are several elements that are typical to construction	A quality assurance review was performed.	
	Identified	DOE-RL	projects, but are not identified in the WBS. Examples	Elements should be included which cover all of	C
			include NEPA documentation, permitting, Conceptual	the elements in the comment. Commenters	
			Design, Quality Assurance Plan, Site Evaluation Plan,	should review the structure when it is	
			Operational Readiness Review and project start-up. Some	distributed for pre-publication review to ensure	
			of these can be significant cost and schedule drivers and	the elements have been addressed.	
			should be included as third level elements. The WBS		
			development team should refer to DOE Cost Guide,		
			Volume 6, Chapter 6 for a listing of typical construction		
			project elements.		

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57	Third Level Element .03.04, Site Health and Safety Plan	Ron Clendenon DOE-RL	The definition indicates that this element only applies to a site level plan. Where will costs for such things as project specific safety analysis reports and safety plans be captured?	Phase 8 will address this issue. The element will be used for project specific plans and Program (Site Wide) when the Level 1 is 8 for Phase 8.	С
58	Second Level Elements .1113, Treatment, Storage and Disposal Facilities	Ron Clendenon DOE-RL	The third level elements of these items are generally oriented to a breakdown of the various types of structures, plant, and equipment needed to provide the second level facility. The structure attempted to pick up operations activities by either making a separate element for operations or by having two definitions (a construction definition for Phase 4 and maintenance definition for Phase 5) for the same element. This inconsistent approach does not adequately address operations and maintenance of the facilities. Suggest revising the third level elements to include separate elements that address the significant cost drivers for operations, maintenance and surveillance.	This comment was addressed during the ICEG meeting to the satisfaction of the commenter. No additional action is necessary.	С
59	Second Level Elements .1113, Treatment, Storage and Disposal Facilities	Ron Clendenon DOE-RL	The definitions of the hazard categories (low hazard, moderate hazard, high hazard) reflected in some of the third level elements are not consistent with recognized definitions. The value of collecting cost information by the hazard category is questioned.	The definitions have been expanded to define the hazard categories and incorporate a reference.	С
60	General Comments	Ron Clendenon DOE-RL	The structure, in many instances, seems to reach a waste type structure in the fourth level. Collection of costs by waste type is not feasible for our multi-waste type facilities on the Hanford Site. Work breakdown structures and activities are not organized by waste type.	Level 4 was not formally adopted by the ICEG. Each agency will have responsibility to determine further adoption.	D

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61	General Comments	Ron Clendenon DOE-RL	This structure is understandably, significantly more detailed for environmental restoration and construction type activities. However, if the intent is to implement use of the structure for all EM work, it must be more complete in the areas of waste management, facilities stabilization, technologies, and facility operations and maintenance. EM projects often involve operations of waste treatment, storage and disposal facilities and these costs usually represent a significant portion of the total life cycle costs of the facility. The current proposed draft structure is not adequate for these types of projects.	As we gain experience in using the WBS it can be expanded to address this comment. In addition, waste management personnel were requested to perform additional review.	D
62		R. Nash, NFSEC	Recommend adding and additional phase - IRA (Interim Removal Action)	The ICEG decided no action necessary. Subprojects can be used to address IRA.	С
63		R. Nash, NFSEC	We need phase definitions for the UST program.	The definitions provided by Navy have been adopted and incorporated in the Level 1 dictionary.	С
64		R. Nash, NFSEC	We may want to consider including phase definitions for compliance activities as well, unless this is out of scope for our WBS.	No action necessary at this time. When preparing the WBS, the developers tried to make the definitions generic in hopes that the structure could be used for other environmental work.	С
65	Second Level, .07, .09	R. Nash, NFSEC	Is labor for sample collection under second level .07 or .09?	Labor costs for sample collection should be included in X.07.	С
66	Second Level D ictionary, Account .23, In Situ Chemical Treatment	R. Nash, NFSEC	Last sentence under Phase 4. Change to: "The types of in situ treatment include chemical reactive barriers, oxygen release compounds, and neutralization."	The definition was adopted.	С
67	Page 17; 2nd Level .18 3rd Level .02	Bill Hombach Team Analysis 703-729-6777	This element should not require any measurable operations and support cost. Suggest removing mark under Phase 5.	No action necessary. Phase 5 is needed.	

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68	Page 21;	Bill Hombach	Change from "Subsurface Drainage/Collection" to "	The element title was revised.	С
	2nd Level .18	Team Analysis	Subsurface Drainage/Collection/French Drain"		
	3rd Level .03	703-729-6777			
69	Page 21	Bill Hombach	Reorganize and rename third level elements to:	The third level element and definitions for "	
	2nd Level .19	Team Analysis		Caps" was revised. The structure used in the	C
		703-729-6777	.01 (No Change)	33X.08 was adopted.	
			.02 (No Change)		
			.03 RCRA C-Cap		
			.04 RCRA D-Cap		
			.05 Other Engineered Caps		
			.06 Bottom Barriers		
70	Page 23;	Bill Hombach	Add third level element for "Soil Vapor Extraction"		
	2nd Level .25	Team Analysis			D
	3rd Level .16	703-729-6777			
71	Page 24;	Bill Hombach	Change from "IN SITU	No action necessary. Stabilization has a	
	2nd Level .29	Team Analysis	STABILIZATION/FIXATION/ENCAPSULATION" to "	boarder context.	C
		703-729-6777	IN SITU		
			SOLIDIFICATION/FIXATION/ENCAPSULATION"		
72	Page 27;	Bill Hombach	Change from "Decontaminating/Dismantling/Disposal of	The title was adopted.	
	2nd Level .30	Team Analysis	Temporary Fuel Storage Facility" to Dismantling of		C
	3rd Level .18	703-729-6777	Temporary Fuel Storage Facility"		
73	General	Steve Tower,	In reply to your memo of May 28, 1998, the Rocky Flats	No action necessary.	
		DOE-RFFO	Field Office reviewed the current draft of the proposed		Е
			Hazardous, Toxic and Radioactive Waste Cost Structure		
			and found it to be satisfactory for its intended purpose. It		
			is likely to be a useful tool for cost control and cost		
			reduction when implemented across the complex.		

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74	Phase 6 - PSLM (Second Level Elements)	Steve McCracken/Bill Owen, DOE-WSSRAP	When the disposal facility is closed and the WSSRAP project is considered complete there will be, within the disposal facility, a system designed to collect any leachate which might migrate through the facility. The leachate will be analyzed, and if criteria are exceeded, the leachate will be treated prior to release. This activity is expected to be minimal but would continue into the foreseeable future and is considered part of the post-closure surveillance and long-term maintenance at WSSRAP. It would be surprising if such a leachate collection system were not a part of most disposal facilities being constructed in geographical areas that receive moderate to heavy annual rainfall. If that is the case, it would seem appropriate to activate elements .17 - SURFACE WATER/SEDIMENTS CONTAINMENT, COLLECTION OR CONTROL and .11 - TREATMENT PLANT/FACILITY in the Post-Closure and Long-Term Maintenance Phase of the HTRW WBS.	A Phase 6 definitions was included.	С
75	General	A.L. Tacoas, Susan Heston, DOE-CH		No action necessary.	Е
76	General	R1 - AACE International	Comment C1 - From my cursory review of the materials, I don't see any significant problems with the proposed WBS.	No action necessary.	Е
77	General	R2 - AACE International	Comment C1[sic] - The revised WBS is organized well to cover all phases of work, from Remedial Investigations and Feasibility Studies to Remedial Actions (Construction).	No action necessary.	Е
78	General	R2 - AACE International	The addition of measurable attributes to the elements will assist in the estimating and collection of historical data for these work items. This will allow for comparison of costs between projects and between public and private types of work.	No action necessary.	Е

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79	General - WBS Numbering	R2 - AACE International	Comment C3 - WBS numbering needs to be used in conjunction with the WBS Dictionary so that all elements are fully defined.	A quality assurance review was performed to ensure that all elements were included in both the structure and the dictionary.	Е
80	First Level WBS Numbering	R2 - AACE International	Comment C4 - First level numbering system is redundant; we have standardized to using the second level numbers to match activity IDs in project management software (because of the limitation of characters).	No action necessary.	D
81	General	R2 - AACE International	Comment C5 - As always, it will be important to use the right level of breakdown for any project; a major project may need to be broken down to the fifth or sixth level; smaller projects do not.	No action necessary.	Е
82	General	Kate Peterson, USACE	The matrix format of the proposed HTRW WBS is not simple to understand. Therefore, communicating how to use the HTRW WBS will be very difficult. To facilitate understanding and use of the HTRW WBS, break out each phase into a separate WBS. As the phase-based structure was progressed and was presented, several benefits are documented, but we now believe that the ICEG should not necessarily abandon the present structure (each phase a separate structure), but only enhance it. The proposed phase-based structure is very complicated. Although the phase-based structure is very detailed, we feel it will not be utilized to its full extent due to lack of time and resources in the field. In addition, the ICEG needs to define specifically the purpose of the HTRW WBS and what information is able to be obtained from the field and concentrate our structure to meet that purpose and what information is available.	This comment was addressed in the ICEG meeting on 8/5-7/98. No further action is necessary.	С

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83	General	Kate Peterson,	The HTRW WBS should be limited to Environmental	This comment was addressed in the ICEG	
		USACE	Restoration (ER) exclusively. Possibly, Waste	meeting on 8/5-7/98. No further action is	C
			Management should have its own structure, since WM is	necessary.	
			DOE specific. If later we want to incorporate appendixes		
			that address other agencies and programs using parts of the		
			HTRW WBS we can. But in order to further the		
			accomplishments of the ICEG HTRW WBS, we believe the		
			structure should be kept to ER. This will also facilitate		
			keeping the HTRW WBS simple.		
84	Level 1,	Kate Peterson,	The Option Level - Subproject Identification should not be	This comment was addressed in the ICEG	
	Subproject	USACE	included in the HTRW WBS. This type of information	meeting on 8/5-7/98. No further action is	C
	Identification		should be included in a users guidance document.	necessary.	
			Therefore, if a user guide was produced for the HTRW		
			WBS, how to incorporate the subprojects could be		
			explained in that document.		
85	Level 3,	Kate Peterson,	The third level of the Remedial Action should be listed	This comment will be addressed in the	
	Remedial	USACE	with a unit of measure associated with each third level	technical edit prior to formal publication.	C
	Action		item. Presently review is very difficult because it is so hard		
			to figure out.		
86	First Level	Kate Peterson,	The First Level Dictionary is an oxymoron, since the	This comment was addressed in the ICEG	
	Dictionary	USACE	phases are never defined. If the ICEG wants to have the	meeting on 8/5-7/98. No further action is	C
			phase approach a generic definition should be written for	necessary.	
			each phase. Again if the HTRW WBS was limited to ER a		
			generic definition would be more achievable.		

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87	Second Level,	Kate Peterson,	The Second Level for the Remedial Action phase should be	This comment was addressed in the ICEG	
	Remedial	USACE	as follows:	meeting on 8/5-7/98. No further action is	
	Action		Mobilization and Preparatory Work.	necessary.	D
			Monitoring, Sampling, Testing, and Analysis.		
			Site Work.		
			Ordnance & Explosive - Chemical Warfare Material (OE-		
			CWM) Removal and Destruction.		
			Surface Water Collection and Control.		
			Groundwater Collection and Control.		
			Air Pollution/Gas Collection and Control.		
			Solids Collection and Containment.		
			Liquids/Sediments/Sludges Collection and Containment.		
			Drums/Tanks/Structures/Miscellaneous Demolition and		
			Removal.		
			Biological Treatment.		
			Chemical Treatment.		
			Physical Treatment.		
			Thermal Treatment.		
			Stabilization/Fixation/Encapsulation.		
			(Reserved for Future Use)		
			Decontamination and Decommissioning (D&D).		
			Disposal (Other than Commercial).		
			Disposal (Commercial).		
			Site Restoration.		
			Demobilization.		
			General Requirements (Optional Breakout).		
			Other (Use Numbers 90-99).		
			HTRW WBS		

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88	Introduction	Kate Peterson,	Figures 1-6, in the Introduction should be eliminated. As	The introduction is being revised to make the	
		USACE	should the matrix format. This just causes confusion.	format more understandable.	C
89	Introduction	Kate Peterson,	The Introduction, Purpose - Application paragraph should	The introduction is being revised to reflect the	
		USACE	be revised with input from the HTRW WBS Committee.	decisions made in the ICEG 8/5-7/98 meeting.	C
			The primary purpose of the HTRW WBS is to assemble		
			historical cost data in standard structure to facilitate		
			collection of cost data for dissemination of typical unit cost		
			range information on HTRW cleanup projects foremost the		
			remedial action and operation and maintenance costs.		
			Other benefits that could be realized are providing a project		
			check list, tracking, comparing, and forecasting costs for		
			the historical information, and benchmarking model		
			generated estimates to the historical cost information. The		
			ICEG should not have a purpose of the HTRW WBS be to		
			cost and schedule estimating, for bid solicitation,		
			collection, and evaluation, and to validate and calibrate		
			cost estimate and software tools. The purpose of the		
			HTRW WBS should be succinct and clear. The purpose of		
			the HTRW WBS should not be so broad it will not be		
			useful.		

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90	General Page 24	Stan Hanson, USACE	In a very long comment, the commenter summarized the development of the current (System 32, 33, 34) HTRW WBS, and the progression of the USACE implementation of that WBS. He included citations of related Engineer Regulations, guidance documents, management systems and cost engineering models that support the current HTRW WBS. With that as background, the comment is the following.  Proposed WBS Update. Due to the above history of the HTRW WBS usage in the Army Corps of Engineers, any major changes would be difficult, time consuming, and expensive to implement. Major changes would be any changes at the second level (PROMIS compatible) and any changes to the existing third level items (HCAS required reporting level). Minor changes, however, could be done at minimal disruption, rework, and expense. These would include: updating the technologies portion of the HTRW RA WBS and HTRW O&M WBS to add new technologies to the bottom of the lists at the third level, while leaving the existing technologies in place; revising the HTRW O&M WBS to make the fourth level (and lower if needed) acceptable for Cost and Performance reporting requirements.	This comment was addressed in the ICEG meeting on 8/5-7/98. No further action is necessary.
91	Page 24 2nd Level .30	Bill Hombach Team Analysis 703-729-6777	Change from "EX SITU  STABILIZATION/FIXATION/ENCAPSULATION" to " EX SITU  SOLIDIFICATION/FIXATION/ENCAPSULATION"	No action necessary. Stabilization has a broader context.
92	Page 27; 2nd Level .30 3rd Level .19	Bill Hombach Team Analysis 703-729-6777	Change from "Decontaminating/Dismantling/Disposal of Intermediate Fuel Storage Facility" to Dismantling of Intermediate Fuel Storage Facility"	The title was revised.

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93	First Level of the WBS	U.S. Air Force, Headquarters, Air Force Center for Environmental Excellence, Environmental Restoration (HQ AFCEE/ER)	The first level of the WBS must contain a Program Planning "phase," in addition to the six existing Phases. The six existing phases work well for tracking project related restoration costs. However, they do not accommodate the Air Force's need to account for program planning resources at the top level of the WBS. Examples of activities that require program planning resources are budget planning, developing the AFCEE restoration program initiatives, and negotiating large delivery order contracts. These are typically management and in-house labor costs that are not associated with the six existing level one phases. AFCEE needs to clearly account for all Air Force resources in the first level of the WBS. We	Phase 8 addresses this comment.	D (They called it " N" for " New WBS element necessar y")
94	Level 2 of the	U.S. Air Force,	Program Planning to level one of the WBS. Second level elements 1, 2, and 3 would be the elements applied or mapped to Program Planning.  Move Natural Attenuation for Level 3 (X.21.08) to the	The comment was not adopted.	С
	WBS	HQ AFCEE/ER	status of its own Level 2 technology.	-	("O" for other)
95	Level 3 of the WBS	U.S. Air Force, HQ AFCEE/ER	The development and use of Geographical Information Systems (GISs) constitute investigation techniques not presently found in the WBS. GIS techniques should be added to the WBS Third Level.	An element was added for GISs X.07.16.	D ("N")

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96	Introduction	Ron Clendenon.	It is noted in the Introduction write up that Level 3 is	No action necessary.	
		DOE-RL	where "the data will be collected and evaluated." In	, and the state of	Е
			reviewing the items comprising Level 3 and Level 4, it is		
			clear to me that in order to get meaningful data, Level 4		
			must be the reporting level. I understand the intention of		
			the 2ndary parameters (which I heartily endorse) was to		
			add meaning to the Level 3 items, however, I submit that		
			there are more "activities" in Level 4 that would supply		
			meaningful data than the "deliverables" in Level 3. The		
			2ndary parameters help, but they won't give you the		
			information that the Level 4 would.		
97	Second Level	Ron Clendenon,	Second levels 11-13 are still confusing to me as to how to	This comment was addressed during the ICEG	
	of the WBS	DOE-RL	organize, and differences between construction and	meeting to the satisfaction of the commenter.	Е
			operations are still not clear. This appears to be a "	No additional action is necessary.	
			functional" breakdown of the facility, not a "construction"		
			breakdown of the facility. And again, deliverables/tasks		
			are being mixed up between levels 3 and 4.		
98	General	Ron Clendenon,	Although this version is being touted as being	As we gain experience in using the WBS it can	
		DOE-RL	comprehensive to include waste management, I am	be expanded to address this comment. In	E
			inclined to agree with my colleague at DOE-Richland, Joe	addition, waste management personnel were	
			Rasmussen, that this structure is probably not ready yet for	requested to perform additional review.	
			waste management activities. For ER and D&D activities,		
			it is pretty comprehensive and can probably be used.		
			However, I do not believe the additions for the waste		
			management activities have gone under much review yet		
			from the waste management community, so I hope that		
			DOE does not force this upon all of EM as it currently		
			exists.		

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99	General	Joe Rasmussen,	RL supports the purpose of the cost structure as providing "	No action necessary.	
		Ron Clendenon,	a common interagency cost language that can be used to	The decision necessary.	Е
		DOE-RL	help generate cost estimates, share cost data to facilitate		_
			sharing of lessons learned and benchmarks, develop cost		
			estimating models, and to provide useful historical cost		
			information." Unique definitions and units of measure		
			(metrics) for each element would provide a uniform basis		
			for meaningful cost information. A standardized cost		
			estimating database would be of value at the Hanford site.		
			It would provide improved credibility to estimates and		
			would support better communications through		
			standardization of terminology.		
100	General	Joe Rasmussen,	Efforts to implement a standard structure to collect useful	No action necessary.	
		Ron Clendenon,	cost information is a worthwhile endeavor as long as the	-	E
		DOE-RL	value added exceeds the cost of the effort to implement and		
			maintain the informationIssues and impacts to be		
			considered include the following:		
			* Impacts of expanding focus of the structure from		
			environmental restoration to all EM work		
			* Impacts to modify contracts to prescribe and mandate		
			use of uniform cost collection structures at the contractor		
			level		
			* Consideration of a graded approach to collecting cost		
			information to ensure that excessive effort is not spent		
			on collecting cost information having minimal		
			significance.		

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101	General	Joe Rasmussen,	It appears that this draft HTRW cost structure is an effort	This comment was addressed in the ICEG	
		Ron Clendenon,	to evolve the current HTRWWBS from a cost	meeting on 8/5-7/98. No further action is	C
		DOE-RL	management tool to a project management that will	necessary.	
			prescribe a common structure for organizing and collecting		
			all EM project costs. The effort has resulted in three		
			distinct structures rolled to-gether. The draft structure is		
			now a programming/regulatory phasing structure (the first		
			level), a project work breakdown structure (usually the		
			second and third levels), and cost estimating code of		
			accounts (usually the fourth level and lower.)		
			Consequently, it is program/project sequence oriented,		
			product oriented and activity oriented, making it difficult		
			to effectively implement the structure as a cost engineering		
			tool and to clearly understand how it aligns or crosswalks		
			with existing DOE and contractor structures. The real		
			purpose of the structure needs to be revisited		

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102	General	Joe Rasmussen,	If this structure is to be used for all EM work, the	DOE will address this comment as a part of our	
		Ron Clendenon,	imple-mentation requirements must be based on a clear	internal agency implementation.	C
		DOE-RL	under-standing of the type of cost information to be		
			obtained, the use of the information, and the system		
			(people, software and hard-ware) capabilities to maintain		
			and analyze the data.		
			* If the structure is to be a work breakdown structure, then		
			cost information will be arranged by project or project		
			element (studies, design documents, waste treatment		
			facility, etc.). This kind of cost information can be used		
			to estimate or compare costs of similar projects or		
			project elements especially during preliminary planning		
			when little information and scope definition is		
			available		
			* If the structure is to be a code of accounts, then cost		
			information will be arranged by the activities required to		
			produce the project elements (sample collection, perform		
			design reviews, install 6" steel piping, etc.). This type of		
			cost information can be used to estimate and compare		
			costs of project activities and is usually used when a		
			project or project element is well defined and		
			quantified		
			The most logical conclusion would be to require costs to be		
			reported to the appropriate level of the work breakdown		
			structure and to provide the code of accounts portion of the		
			structure for use, at the discretion of the field offices, as a		
			cost control structure and/or activity checklist.		

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103	General	Joe Rasmussen,	The current implementation plans would require	DOE will address this comment as a part of our	
		Ron Clendenon,	contractors to report project costs by a prescribed work	internal agency implementation.	E
		DOE-RL	breakdown structure. It appears that the requirement does		
			not expect to direct to contractor to use the prescribed		
			structure in its project management and cost collection		
			systems. However, the proposedstructure is developed to		
			a low level of detail within projects and if the contractor's		
			current structure is not consistent with the proposed		
			structure, the contractor will be forced to change its		
			structure to be in alignment. This is a key issue because		
			without a common structure, cost information will be		
			difficult clearly understand, compare and analyze, but by		
			requiring the use of a common detailed project work		
			breakdown structure, we are being too prescriptive of the		
			contractor.		
104	General	Joe Rasmussen,	The write-up indicates that costs would be reported upon	The introduction is being revised to address	
		Ron Clendenon,	completion of individual projects. This does not recognize	this comment. At a minimum costs should be	D
		DOE-RL	that many operations activities can go on for years and	collected at the end of individual projects.	
			reporting requirements should address cost reporting for		
			these types of activities.		

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